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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/602,333	06/24/2003	Robert W. Rush	070221-9012-01 2035 EXAMINER	
23409	7590 05/14/2004			
MICHAEL BEST & FRIEDRICH, LLP			KOVACS, ARPAD F	
100 E WISCONSIN AVENUE MILWAUKEE, WI 53202			ART UNIT	PAPER NUMBER
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	•		DATE MAILED: 05/14/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/602,333	RUSH, ROBERT W.				
Office Action Summary	Examiner	Art Unit				
No. 10 Percentage of the Control of	Árpád Fábián Kovács	3671				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be within the statutory minimum of thirty (30) drill apply and will expire SIX (6) MONTHS fro cause the application to become ABANDON	timely filed ays will be considered timely. The mailing date of this communication. JED (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>24 Ju</u> 2a)□ This action is FINAL . 2b)⊠ This	ne 2003. action is non-final.					
3)☐ Since this application is in condition for allowar		rosecution as to the merits is				
closed in accordance with the practice under E						
Disposition of Claims						
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4) Claim(s) <u>1-27</u> is/are pending in the application.4a) Of the above claim(s) is/are withdraw						
5) Claim(s) is/are allowed.	WIT ITOTIT CONSIDERATION.					
6)⊠ Claim(s) <u>1-27</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers	•					
	on production of the second o					
9) ☐ The specification is objected to by the Examine 10) ☐ The drawing(s) filed on is/are: a) ☐ acce		. Everniner				
Applicant may not request that any objection to the	•					
Replacement drawing sheet(s) including the correcti	- · · · -	* *				
11)☐ The oath or declaration is objected to by the Ex						
Priority under 35 U.S.C. § 119						
•						
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)-(d) or (f).				
a) All b) Some * c) None of:	have been received	·				
1. Certified copies of the priority documents have been received.						
 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage 						
application from the International Bureau		ved III tilis Ivational Stage				
* See the attached detailed Office action for a list	* **	ved.				
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		a de la companya de l				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summa					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152)						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 6/24/2003.	6) Other:	ratent Application (PTO-152)				
U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Office Ac		Part of Paper No./Mail Date 05102004				

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DETAILED ACTION

Specification

1. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-13, 17-22, 26-27 are rejected under 35 U.S.C. 102(b) as being anticipated by Harden et al (5540558).

Harden discloses a compact linear actuator which is capable of being used and/or applicable to be configured for a lawnmower lifting system or any other powered implement (cl. 17-18, 26-27); the actuating system comprising:

As Harden discloses the details of compressor actuated actuator, valve & electric control system (col. 3-6, col. 7, lines 1-44);

an actuator device self-contained within a housing, the actuator device including a movable piston positioned in a cylinder portion of the housing, the cylinder portion defining a longitudinal axis, the piston being movable along the longitudinal axis in response to an accumulation of air pressure within the cylinder portion, a rod coupled to the piston for movement with the piston, the rod at least partially extending outside of the housing to couple to the object, and an air compressor located within the housing,

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the air compressor transferring air from a location in the housing outside the cylinder portion to a location inside the cylinder portion; and an object coupled to a portion of the rod outside of the housing, the object being moved in response to movement of the piston;

further comprising a valve selectively fluidly connecting the location inside the cylinder portion and the location in the housing outside the cylinder portion;

wherein the valve selectively fluidly connects the location inside the cylinder portion and the location in the housing outside the cylinder portion to vent the air pressure from the cylinder portion;

wherein the valve comprises a solenoid valve selectively actuated by an electrical power source;

further comprising a switch selectively electrically connecting the solenoid valve and the power source;

further comprising a main power switch electrically connected with a power source; and a limit switch positioned within the housing adjacent the piston such that selective movement of the piston triggers the limit switch, the limit switch selectively electrically connecting the air compressor and the main power switch, wherein the main power

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switch selectively electrically connects the air compressor and the power source to operate the air compressor;

wherein the object includes a powered implement carried by a motorized vehicle;

wherein the implement includes a mower deck carried by a riding lawnmower, and wherein the actuator device is configured to raise and lower the mower deck relative to a mowing surface traveled by the riding lawnmower;

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 14-16, 23-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Trefz et al (6543560), in view of Harden et al (5540558).

Trefz however discloses a clutch, pulley brake assembly for pulley system utilizing an actuator.

Harden discloses an improved actuator.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the clutch, pulley brake assembly of Trefz with the teachings of Harden, in order to prevent backflow from flowing outward from the compressor.

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Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Linak (EP 531247), Cassoni, Graf, Frost, Noble.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Árpád Fábián Kovács whose telephone number is 703-308-5897. The examiner can normally be reached on Mo-Th.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas B. Will can be reached on 703 308 3870. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Árpád Fábián Kovács Primary Examiner Art Unit 3671

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